







Assessment Summary

Pond Creek 7.5 to 11.7 KY501042_03	 <p>This part of the stream does not support aquatic life, partially supports swimming (Primary Contact Recreation), does not support fishing/wading/boating (Secondary Contact Recreation).</p>
Plum Creek to Caney Creek	
Muhlenberg County, Green River Basin	
HUC 05110003	
Assessment Date: 11/26/2013	






Use	Cause of Impairment	Suspected Source(s) of Impairment	Basis for Listing	Data Collection and Analysis Methods ^{1,2,3}
 (4A-PS)	Escherichia coli	Non-Point Source	Concentrations exceeded the water quality standard	Pathogen Monitoring, Physical/Chemical Monitoring
 (4A-PS)	pH	Acid Mine Drainage	Concentrations did not meet the water quality standard	Pathogen Monitoring, Physical/Chemical Monitoring
 (4A-NS)	pH	Acid Mine Drainage	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring
 (4A-NS)	Cadmium	Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (4A-NS)	Chloride	Inappropriate Waste Disposal, Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities, Petroleum/natural Gas Production Activities (Permitted), Surface Mining	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring

¹ Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

² Data Source(s): KDOW, WKU

³ Data Collection Date(s): 11/17/2010 - 10/20/2011

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 (4A-NS)	Iron	Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (4A-NS)	pH	Acid Mine Drainage, Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring
 (4A-NS)	Sedimentation/Siltation	Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities, Streambank Modifications/destabilization	Sediment deposition is negatively affecting the aquatic community (e.g. habitat smothering) and/or recreation	Physical/Chemical Monitoring
 (4A-NS)	Specific Conductance	Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities	Elevated dissolved substances are negatively affecting the aquatic community	Physical/Chemical Monitoring
 (4A-NS)	Total Dissolved Solids	Legacy coal extraction, Non-Point Source, Petroleum/natural Gas Activities	Elevated dissolved substances are negatively affecting the aquatic community	Physical/Chemical Monitoring

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